

## Compaction

### UMI - 137

#### Compaction Test Apparatus, Manual

##### Ref. Standards

IS:2720 (Part 7), IS:2720 (Part 8)

IS:9198, IS:10074, BS:1377

ASTM D 698, D 1557

##### Universal Automatic Compactor

This is new design motor driven mechanical compactor, useful for soil compaction in 100 mm or 150 mm dia moulds. Two sets of rammers are provided, one of 2.6 kg arranged for 310 mm drop and the other of 4.9 kg arranged for 450 mm drop. For compacting soil into 150 mm dia moulds, the rammer feet for 2.6 kg and 4.9 kg are of 100 mm dia and for 100 mm dia moulds they are 50 mm dia.

The rammer assembly is provided with a ratchet and pawl arrangement to lift it from the top of the soil layer. When the rammer reaches the required height, the catch releases the rammer allowing it to fall under its own weight. The base plate of the mould has to be rotating base plate of the instrument which makes 1/9th revolution per stroke. The number of strokes required for the rammer can be set on an automatic electronic blow counter. The equipment is suitable for operation on 220 V, 50 Hz, Single Phase, AC Supply. Can also be provided as per BS/ASTM standards.



## Specific Gravity

Specific Gravity is the ratio of the weight in air of a given volume of a material at a standard temperature to the weight in air of an equal volume of distilled water at the same stated temperature. The equipment mentioned below can be used to test a wide range of materials from clay to sand and gravel smaller than 10 mm.

### UMI - 145

#### Pynkometer

##### Ref. Standard

IS:2386 (Part 3)

Consists of a 1 kg Glass Jar with Brass Cone, Locking Ring and Rubber Seal.



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